

## Year 9 Computing Sequence

Year	Content Taught	National Curriculum Reference	Essential Knowledge	Assessment	Rationale
Year 9					
Year 9 YEAR 9 HT1	In this half term students will study a topic focused on:  VFestival - Graphics	Create, reuse, revise and repurpose digital artefacts for a given audience, with attention to trustworthiness, design and usability	Skills learned include:  • Formatting, Lasso Tool, Fill, Filters  Draws on essential knowledge learned in Year 8	Formative Students will complete retrieval exercises each lesson to review and recall knowledge from previous lessons and apply this knowledge to alternate scenarios to deepen understanding.  Summative Students will complete a Teams based KO Test to summarise content.  Within this half term students will develop essential knowledge in lessons and	In Year 9 the rationale behind the curriculum is to introduce project-based work. This is designed to build on and deliver Computer Science and ICT multimedia essential knowledge learned over the previous 2 years and applying them to create a whole project based on a specific scenario. Students will be taught how to be more analytical to identify and understand what a client's requirements are.
				'bring it all together', by implementing it into a challenging and motivational ICT based "design and create"	also builds on knowledge gained in KS2, learning how to select, use and combine
				task using the software that students have been developing skills in using.	a variety of software (including internet services)

HT2	In this half term	Create, reuse, revise and	Skills learned	Formative	on a range of digital devices
	students will study a	repurpose digital artefacts for a	include:	Students will complete	to design and create a
	topic focused on:	given audience, with attention to		retrieval exercises each lesson	range of programs, systems
		trustworthiness, design and	<ul> <li>Navigation,</li> </ul>	to review and recall	and content that
	VFestival -	usability	hyperlinks,	knowledge from previous	accomplish given goals,
	Dreamweaver		interaction,	lessons and apply this	including collecting,
			content relevance, ease	knowledge to alternate	analysing, evaluating and
	VFestival -		of use.	scenarios to deepen	presenting data and
	PowerPoint		0. 000.	understanding.	information.
					Students will then need to
				Summative	give reasons and
				Students will complete a	explanations as to why they
				Teams based KO Test to	have fulfilled the specified
				summarise content.	criteria. The work
					completed in KS3 and
				Within this half term students	specifically Year 9 will allow
				will develop essential	the students to transition
				knowledge in lessons and	seamlessly into the subject
				'bring it all together', by implementing it into a	options chosen in KS4 –
				challenging and motivational	Computer Science and
				Dreamweaver based "design	Digital Information
				and create" task.	Technology. This builds on
					the Project work including
HT3	In this half term	Design, use and evaluate	Formulas and	Formative	User Interfaces and
	students will study a	computational abstractions that	Functions include:	Students will complete	spreadsheets to allow
	topic focused on:	model the state and behaviour of		retrieval exercises each lesson	seamless access to the
		real-world problems and physical	<ul> <li>Formatting,</li> </ul>	to review and recall	topics covered in ICT.
	VFestival -	systems	sum, formulas,	knowledge from previous	Programming and
	Spreadsheets		spinners,	lessons and apply this	algorithms build into KS4
			Conditional	knowledge to alternate	Computer Science.
			formatting,	scenarios to deepen	
			VLOOKUP, list	understanding.	Sequence and Progression:
			box, if		
				Summative	

			statements,	Students will complete a	V-Festival Graphics and
			Macros	Teams based KO Test to	User interface in HT1 linked
				summarise content.	in KS4 to Component 1 User
			Draws on essential		Interfaces in Yr10.
			knowledge learned	Within this half term students	
			in KS2	will develop essential	<b>Databases</b> in HT4 is linked
				knowledge in lessons and	to Component 2 – Data
				'bring it all together', by	Dashboard in KS4 in Yr10
				implementing it into a	and 11.
				challenging and motivational	It is also linked in KS4 to
				Excel based "design and create" task.	Data Representation and
				create task.	Databases in Computer
HT4	In this half term	Design, use and evaluate	Skills learned	Formative	Science in Yr10.
	students will study a	computational abstractions that		Students will complete	Science III 11 10.
	topic focused on:	model the state and behaviour of		retrieval exercises each lesson	V-Festival Booking System
	topic rocused on.	real-world problems and physical	Validation,	to review and recall	in HT3 is linked in KS4 to
	Netflix Database –	systems	Tables,	knowledge from previous	Component 2 Data
	Tables, Data types	Systems	Queries,	lessons and apply this	Dashboard in KS4.
	and Forms		Reports, Forms,	knowledge to alternate	Dashboara iii ko4.
			Input Masks etc	scenarios to deepen	
			iliput iviasks etc	understanding.	
				diderstanding.	
				Summative	
				Students will complete a	
				Teams based KO Test to	
				summarise content.	
				Within this half term students	
				will develop essential	
				knowledge in lessons and	
				'bring it all together', by	
				implementing it into a	
				challenging and motivational	
				Access based "design and create" task.	
				Create task.	

HT5 &	In this half term	Understand several key	Instructions	Formative
HT6		•	include:	
піо	students will study a	algorithms that reflect	iliciade.	Students will complete
	topic focused on:	computational thinking [for	Computational	retrieval exercises each lesson
		example, ones for sorting and	thinking, python,	to review and recall
	Python programming	searching]; use logical reasoning	print, variables,	knowledge from previous
		to compare the utility of	data types, input, if	lessons and apply this
		alternative algorithms for the	and for loops,	knowledge to alternate
		same problem	angles of shapes,	scenarios to deepen
			iteration and	understanding.
			procedures.	
			Daniel and according	Summative
			Draws on essential	Students will complete a
			knowledge learned	Teams based KO Test to
			in Year 7 Python	summarise content.
			programming	
			Turtle	Within this half term students
				will develop essential
				knowledge in lessons and
				'bring it all together', by
				implementing it into a
				challenging Python
				programming creation task.
				Students will apply algorithmic
				thinking to create a Python
Ì				based solution to the task set.
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